IN THE CLAIMS

Please amend the claims as follows:

	1. (Currently Amended) An electronic data processing circuit
	that uses current mode signalling, the circuit comprising:
	a data source circuit with an output for a logic signal;
	a data receiving circuit;
5	a communication conductor; and
	a transition coding circuit coupled between the data
	source circuit and the communication conductor, for driving the
	communication conductor in a first state in pulses in response to
	transitions in the logic signal and in a second state outside the
10	pulses _{7.L}
	<u>wherein</u> the data receiving circuit <u>comprising</u> <u>comprises</u> a
	current supply and measuring circuit coupled to the communication
	conductor for supplying a current to the communication conductor to $% \left(1\right) =\left(1\right) \left(1\right)$
	counteract the driving of the communication conductor, the data
15	processing circuit being constructed so that the current that needs $% \left(1\right) =\left(1\right) \left(1\right)$
	to be supplied is smaller when the communication conductor is
	driven in the second state than when the communication conductor is $% \left(1\right) =\left(1\right) \left(1\right)$
	driven in the first state, the current supply and measuring circuit $% \left(1\right) =\left(1\right) \left(1\right)$
	recovering the logic signal from measurements of the current $_{\scriptscriptstyle d\!$
20	and wherein the current supply and measuring circuit
	defines a threshold potential of the communication conductor at
	which the current substantially starts increasing from zero, the
	transition coding circuit and the current supply and measuring

circuit being constructed so that the potential of the
communication conductor remains at the threshold or on a
substantially zero current side of said threshold when the
transition coding circuit drives the communication conductor in the
second state.

2. (Cancelled).

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- 4. (Currently Amended)
 An—The electronic data processing circuit according to as claimed in Claim 3, comprising wherein the electronic data processing circuit further comprises a refresh transistor with having a main current channel coupled in parallel with the input of the current mirror and a control electrode coupled to an output of the current mirror, for—said refresh transistor making the main current channel conductive each time when one of the pulses has been detected.

- 5. (Currently Amended)

 An The electronic data processing circuit according to as claimed in Claim 3, wherein the transition coding circuit comprises a driver circuit with having a first transistor coupled between the communication conductor and a first power supply line, and a series connection of main current channels of a second transistor and a voltage limiting transistor coupled between the communication conductor and a second power supply line, the first transistor driving the communication conductor during pulses, the voltage limiting transistor limiting a voltage level to which the driver circuit drives the communication conductor outside the pulses to a threshold level of the current mirror.
- 6. (Currently Amended) An—The electronic data processing circuit according to as claimed in Claim 3, wherein the capacitive voltage measuring circuit comprising a main current channel coupled to the output of the current mirror, for discharging the output of the current mirror, and

 a delay circuit between the output of the current mirror and a control electrode of the reset transistor for activating said discharging each time with a delay after detecting one of the pulses.
 - 7. (Currently Amended) An-<u>The</u> electronic data processing circuit according to as <u>claimed in</u> Claim 3, wherein the current supply and measuring circuit is combined with a further driver, the

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further driver comprising a first transistor with a main current

5 channel coupled between the communication conductor and a first
power supply line in series with the input of the current mirror
and a second transistor with a main current channel coupled between
the communication conductor and a second power supply line, the
data processing circuit being arranged to supply pulses to control

10 electrodes of the first and second transistor, so that the main
current channel of the first and second transistor are made
conductive and non-conductive respectively during the pulses, when
data to be transmitted from the data receiving circuit changes.